JP2001-067660

FIG. 1

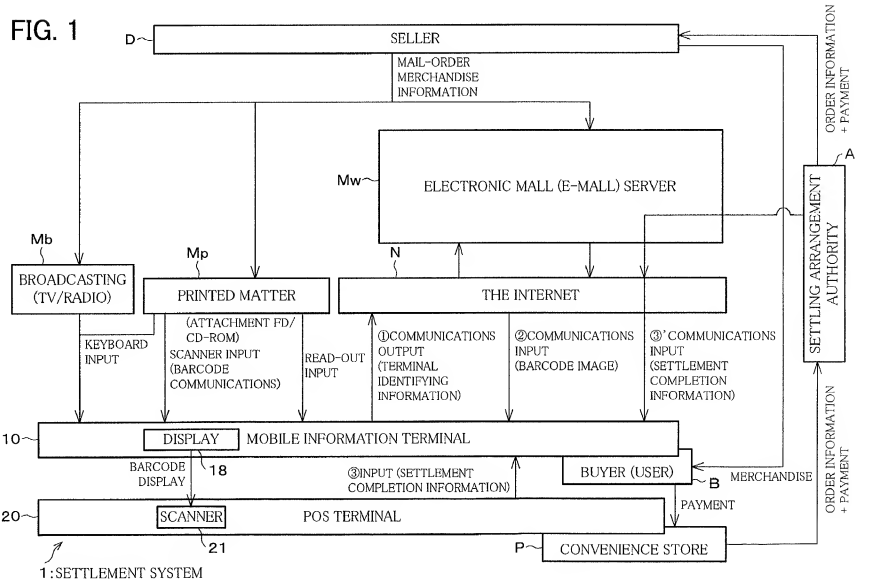

FIG. 2

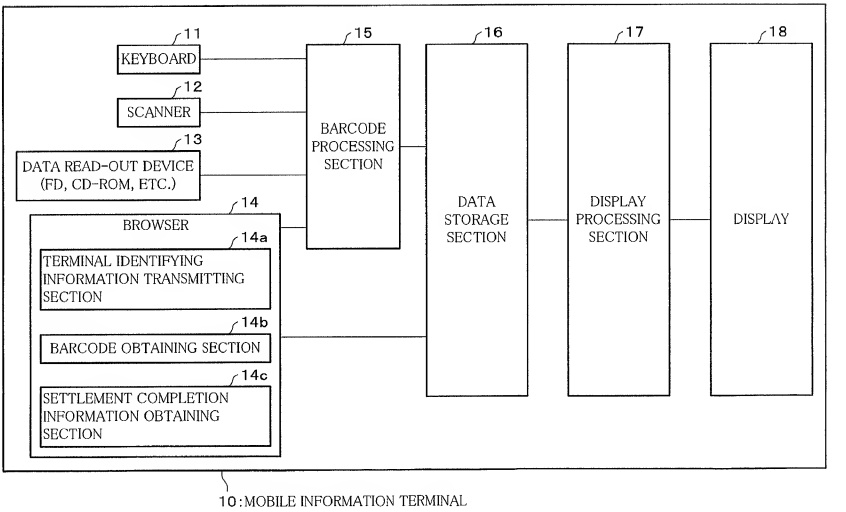
11
KEYBOARD
12
SCANNER
13
DATA READ-OUT DEVICE
(FD, CD-ROM, ETC.)
14
BROWSER
14a
TERMINAL IDENTIFYING
INFORMATION TRANSMITTING
SECTION
14b
BARCODE OBTAINING SECTION
14c
SETTLEMENT COMPLETION
INFORMATION OBTAINING
SECTION
15
BARCODE
PROCESSING
SECTION
16
DATA
STORAGE
SECTION
17
DISPLAY
PROCESSING
SECTION
18
DISPLAY
10:MOBILE INFORMATION TERMINAL

FIG. 3

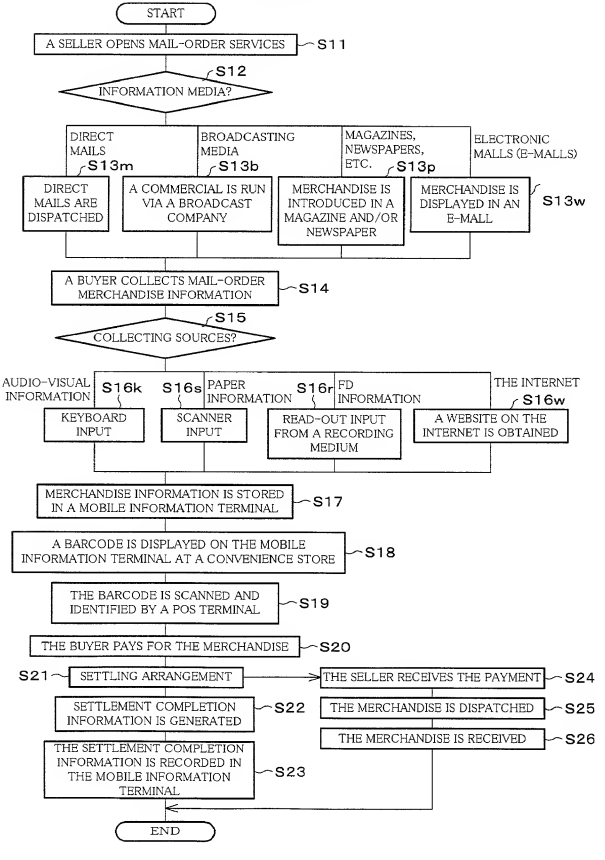
START
A SELLER OPENS MAIL-ORDER SERVICES
S11
S12
INFORMATION MEDIA?
DIRECT MAILS
S13m
BROADCASTING MEDIA
S13b
MAGAZINES, NEWSPAPERS, ETC.
S13p
ELECTRONIC MALLS (E-MALLS)
DIRECT MAILS ARE DISPATCHED
A COMMERCIAL IS RUN VIA A BROADCAST COMPANY
MERCHANDISE IS INTRODUCED IN A MAGAZINE AND/OR NEWSPAPER
MERCHANDISE IS DISPLAYED IN AN E-MALL
S13w
A BUYER COLLECTS MAIL-ORDER MERCHANDISE INFORMATION
S14
S15
COLLECTING SOURCES?
AUDIO-VISUAL INFORMATION
S16k
S16s
PAPER INFORMATION
S16r
FD INFORMATION
THE INTERNET
S16w
KEYBOARD INPUT
SCANNER INPUT
READ-OUT INPUT FROM A RECORDING MEDIUM
A WEBSITE ON THE INTERNET IS OBTAINED
MERCHANDISE INFORMATION IS STORED IN A MOBILE INFORMATION TERMINAL
S17
A BARCODE IS DISPLAYED ON THE MOBILE INFORMATION TERMINAL AT A CONVENIENCE STORE
S18
THE BARCODE IS SCANNED AND IDENTIFIED BY A POS TERMINAL
S19
THE BUYER PAYS FOR THE MERCHANDISE
S20
S21
SETTLING ARRANGEMENT
THE SELLER RECEIVES THE PAYMENT
S24
SETTLEMENT COMPLETION INFORMATION IS GENERATED
S22
THE MERCHANDISE IS DISPATCHED
S25
THE MERCHANDISE IS RECEIVED
S26
THE SETTLEMENT COMPLETION INFORMATION IS RECORDED IN THE MOBILE INFORMATION TERMINAL
S23
END

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FIG. 4

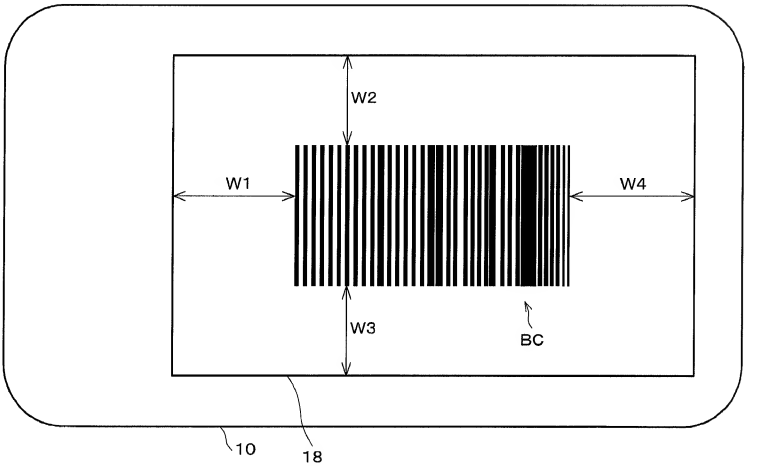

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FIG. 5 (a)

FIG. 5 (b)

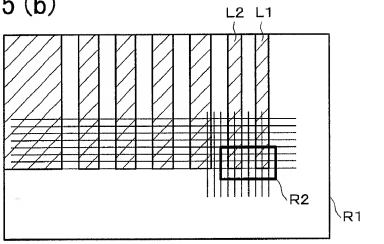

FIG. 5 (c)

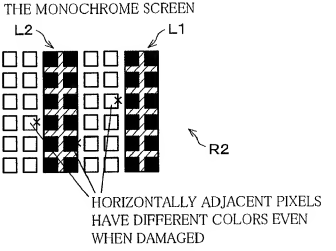

FIG. 5 (d)

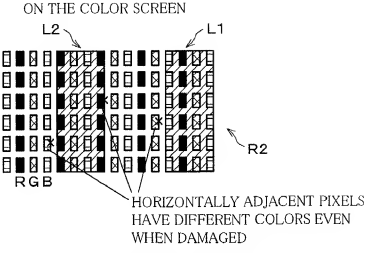

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FIG. 6

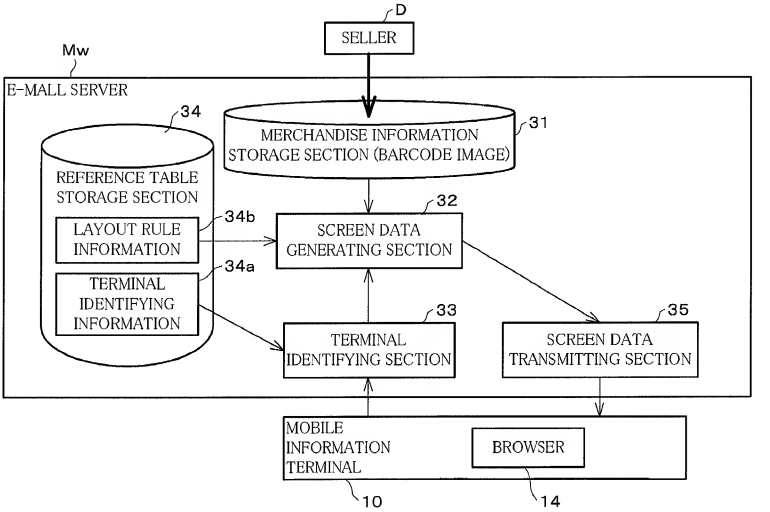

FIG. 7

DISPLAY DEVICE	USER AGENT INFORMATION OUT OF AN HTTP HEADER	W1	W2	W3	W4
MI-X1 SERIES	User-Agent:sharp pda brower/1.0[ja](MI-X1/1.0)	10	12	15	20
MI-X2 SERIES	User-Agent:sharp pda brower/1.0[ja](MI-X2/1.0)	15	17	23	30
MI-X3 SERIES	User-Agent:sharp pda brower/1.0[ja](MI-X3/1.0)	10	12	15	20
MI-X4 SERIES	User-Agent:sharp pda brower/1.0[ja](MI-X4/1.0)	12	14	20	24
MI-X5 SERIES	User-Agent:sharp pda brower/1.0[ja](MI-X5/1.0)	15	17	23	30
MI-X6 SERIES	User-Agent:sharp pda brower/1.0[ja](MI-X6/1.0)	20	24	30	40
UNSPECIFIED	ABSENCE (ABSENCE OF A TARGET DATA FOR REGISTRATION)	10	12	-	-

T1

FIG. 8

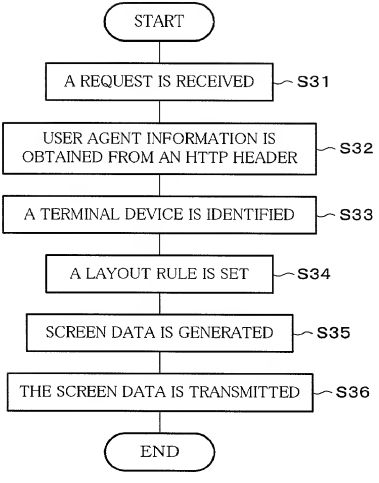
START
A REQUEST IS RECEIVED
S31
USER AGENT INFORMATION IS OBTAINED FROM AN HTTP HEADER
S32
A TERMINAL DEVICE IS IDENTIFIED
S33
A LAYOUT RULE IS SET
S34
SCREEN DATA IS GENERATED
S35
THE SCREEN DATA IS TRANSMITTED
S36
END

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FIG. 9

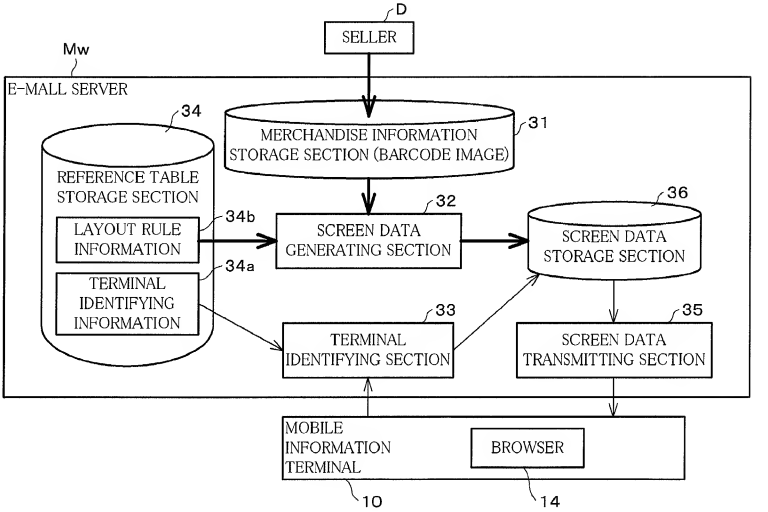


FIG. 10

DISPLAY DEVICE	BARCODE						
	BC1	BC2	BC3	BC4	BC5	~	BCn
MI-X1 SERIES	DX1-1	DX1-2	DX1-3	DX1-4	DX1-5	~	DX1-n
MI-X2 SERIES	DX2-1	DX2-2	DX2-3	DX2-4	DX2-5	~	DX2-n
MI-X3 SERIES	DX3-1	DX3-2	DX3-3	DX3-4	DX3-5	~	DX3-n
MI-X4 SERIES	DX4-1	DX4-2	DX4-3	DX4-4	DX4-5	~	DX4-n
MI-X5 SERIES	DX5-1	DX5-2	DX5-3	DX5-4	DX5-5	~	DX5-n
MI-X6 SERIES	DX6-1	DX6-2	DX6-3	DX6-4	DX6-5	~	DX6-n
UNSPECIFIED	XXX-1	XXX-2	XXX-3	XXX-4	XXX-5	~	XXX-n

T2

FIG. 11

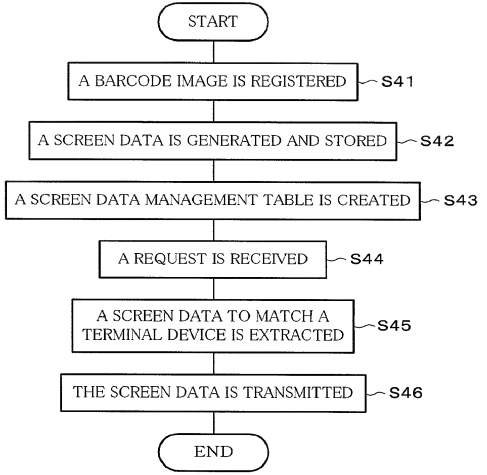

START
A BARCODE IMAGE IS REGISTERED
S41
A SCREEN DATA IS GENERATED AND STORED
S42
A SCREEN DATA MANAGEMENT TABLE IS CREATED
S43
A REQUEST IS RECEIVED
S44
A SCREEN DATA TO MATCH A TERMINAL DEVICE IS EXTRACTED
S45
THE SCREEN DATA IS TRANSMITTED
S46
END

FIG. 12

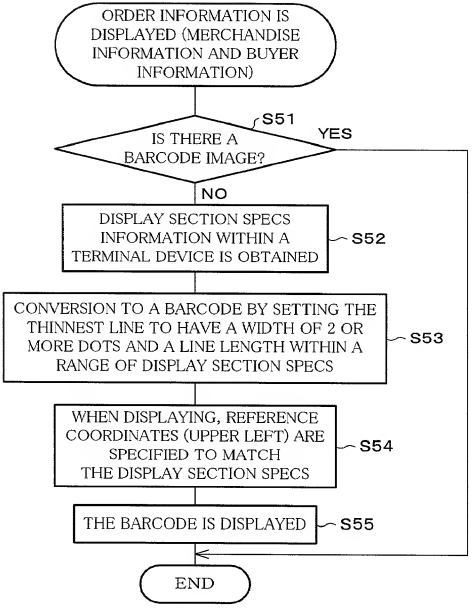

ORDER INFORMATION IS DISPLAYED (MERCHANDISE INFORMATION AND BUYER INFORMATION)
S51
IS THERE A BARCODE IMAGE?
YES
NO
DISPLAY SECTION SPECS INFORMATION WITHIN A TERMINAL DEVICE IS OBTAINED
S52
CONVERSION TO A BARCODE BY SETTING THE THINNEST LINE TO HAVE A WIDTH OF 2 OR MORE DOTS AND A LINE LENGTH WITHIN A RANGE OF DISPLAY SECTION SPECS
S53
WHEN DISPLAYING, REFERENCE COORDINATES (UPPER LEFT) ARE SPECIFIED TO MATCH THE DISPLAY SECTION SPECS
S54
THE BARCODE IS DISPLAYED
S55
END

FIG. 13

DISPLAY SECTION SPECS	MOBILE INFORMATION TERMINAL USER INFORMATION (BUYER INFORMATION)			
W1 W2 W3 W4	MEMBERSHIP INFORMATION	ADDRESS	PHONE NUMBER	USER AGENT INFORMATION
10 12 15 20	SHARP111	NARA XXXXXXX	0744-3X-XXXX	SHARP xxxxxxxx

FIG. 14

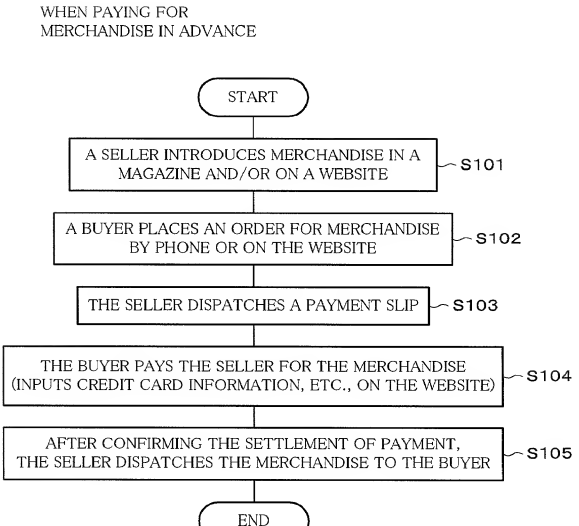
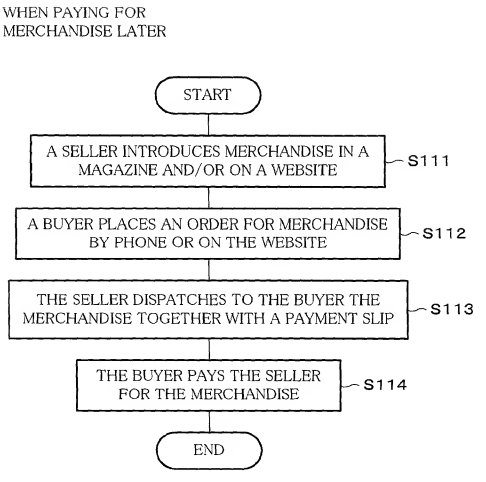

WHEN PAYING FOR
MERCHANDISE IN ADVANCE
START
A SELLER INTRODUCES MERCHANDISE IN A MAGAZINE AND/OR ON A WEBSITE
S101
A BUYER PLACES AN ORDER FOR MERCHANDISE BY PHONE OR ON THE WEBSITE
S102
THE SELLER DISPATCHES A PAYMENT SLIP
S103
THE BUYER PAYS THE SELLER FOR THE MERCHANDISE (INPUTS CREDIT CARD INFORMATION, ETC., ON THE WEBSITE)
S104
AFTER CONFIRMING THE SETTLEMENT OF PAYMENT, THE SELLER DISPATCHES THE MERCHANDISE TO THE BUYER
S105
END

FIG. 15


WHEN PAYING FOR MERCHANDISE LATER
START
A SELLER INTRODUCES MERCHANDISE IN A MAGAZINE AND/OR ON A WEBSITE
S111
A BUYER PLACES AN ORDER FOR MERCHANDISE BY PHONE OR ON THE WEBSITE
S112
THE SELLER DISPATCHES TO THE BUYER THE MERCHANDISE TOGETHER WITH A PAYMENT SLIP
S113
THE BUYER PAYS THE SELLER FOR THE MERCHANDISE
S114
END